802.11 b/g/n Mini Wireless LAN USB 2.0 Adapter

USER'S MANUAL

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Country Code Statement

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

To maintain compliance with FCC RF exposure requirements, use only belt-clips, holsters or similar accessories that do not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Federal Communication Commission (FCC) Radiation Exposure Statement

This EUT is compliance with SAR for general population/uncontrolled exposure limits in ANSI/IEEE C95.1-1999 and had been tested in accordance with the measurement methods and procedures specified in OET Bulletin 65 Supplement C. This equipment should be installed and operated with minimum distance 2.5cm between the radiator & your body.

CE Statement:

Hereby, AboCom, declares that this device is in compliance with the essential requirement and other relevant provisions of the R&TTE Driective 1999/5/EC.

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CHAPTER 1: INTRODUCTION

The **WU5214** (Wireless LAN USB Adapter) is an IEEE802.11b/g/n USB adapter that connects your notebook to a wireless local area network. The **WU5214** fully complies with IEEE 802.11n draft 3.0 and IEEE 802.11 b/g standards, delivers reliable, cost-effective, feature rich wireless connectivity at high throughput from an extended distance.

The **WU5214** is a very small adapter that can connect notebook, handheld or desktop computer equipped with USB interface for wireless network applications. It allows you to take full advantage of your notebook's mobility with access to real-time information and online services anytime and anywhere.

FEATURES

- > 1T1R Mode with 150Mbps PHY Rate for both.
- Complies with IEEE 802.11n draft 3.0 and IEEE 802.11 b/g standards.
- Supports WEP 64/128 bits, WPA, WPA2.
- Supports WMM and WMM-PS.
- Supports WPS configuration.
- Supports USB 2.0/1.1 interface.
- Portable and mini-size design.
- Compatible with Microsoft Windows 2000, XP, and Vista operating systems.

CHAPTER 2:

INSTALLATION

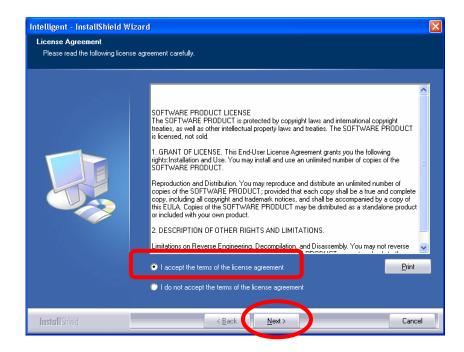
FOR WINDOWS 2000/XP

INSTALL THE SOFTWARE

Note:

Do not insert the Wireless LAN USB Adapter into the computer until the InstallShield Wizard finished installing.

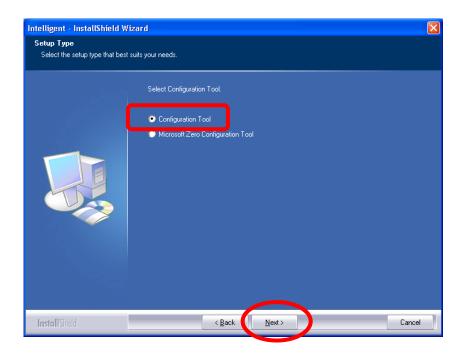
- 1. Exit all Windows programs. Insert the included Installation CD into the computer. The CD-ROM will run automatically.
- 2. When the License Agreement screen appears, please read the contents and select "I accept the terms of the license agreement " then click Next to continue.



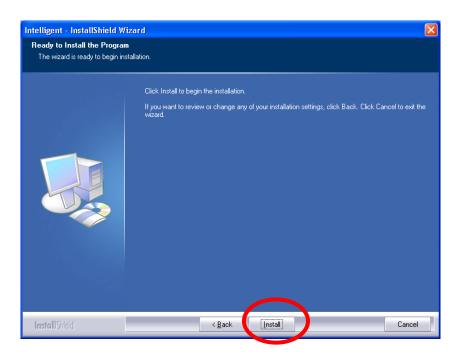
- 3. Select the check box to choose a Configuration Tool from the listed two choices.
 - **Configuration Tool**: Choose to use the configuration utility.

• Microsoft Zero Configuration Tool: Choose to use Windows XP's built-in Zero Configuration Utility (ZCU).

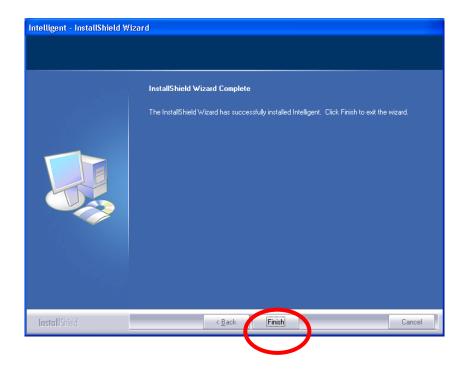
Click Next to continue.



5. When prompt to the following message, please click **Install** to begin the installation.



6. When the following screen appears, click **Finish** to complete the software installation.



INSTALL THE HARDWARE

Note:

Insert the Wireless LAN USB Adapter when finished software installation.

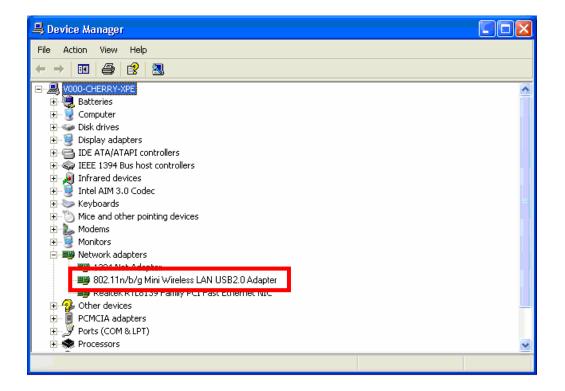
Insert the Wireless LAN USB Adapter into the USB Port of the computer. The system will automatically detect the new hardware.



To verify if the device is active in the computer. Go to Start > Setting > Control Panel > System

> Hardware > Device Manager. Expand the Network Adapters category. If the 802.11n/b/g

Mini Wireless LAN USB2.0 Adapter is listed here, it means that the device is properly installed and enabled.



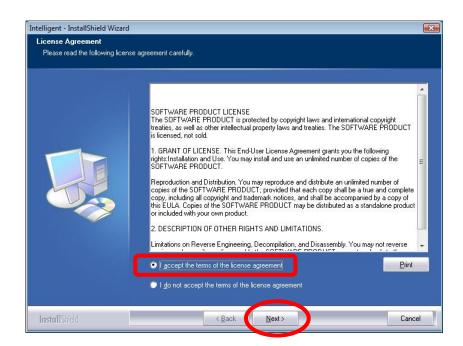
FOR WINDOWS VISTA

INSTALL THE SOFTWARE

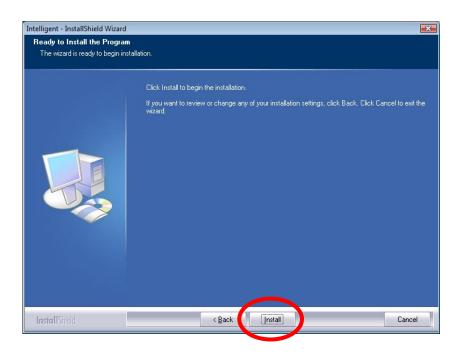
Note:

Do not insert the Wireless LAN USB Adapter into the computer until the InstallShield Wizard finished installing.

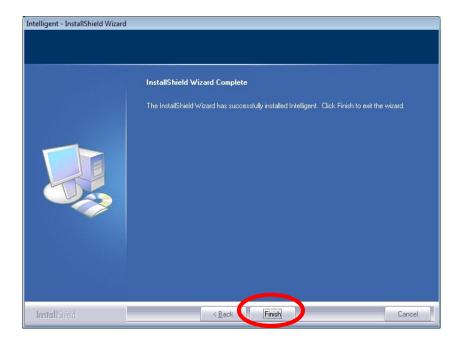
- 1. Exit all Windows programs. Insert the included Installation CD into the computer. The CD-ROM will run automatically.
- 2. When the License Agreement screen appears, please read the contents and select "I accept the terms of the license agreement " then click Next to continue.



3. When prompt to the following message, please click **Install** to begin the installation.



4. When the following screen appears, click **Finish** to complete the software installation.



INSTALL THE HARDWARE

Note:

Insert the Wireless LAN USB Adapter when finished software installation.

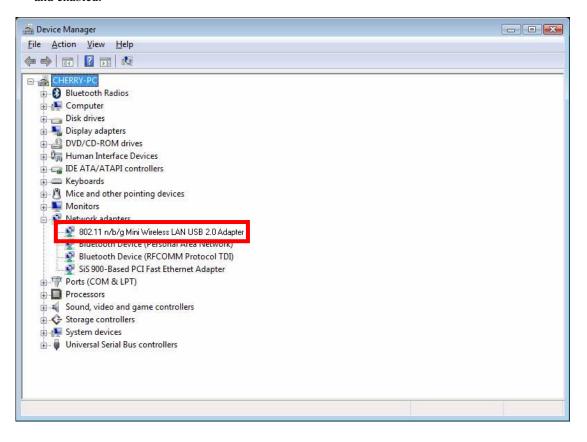
Insert the Wireless LAN USB Adapter into the USB Port of the computer. The system will automatically detect the new hardware.

VERIFICATION

To verify if the device is active in the computer. Go to Start > Setting > Control Panel > System

> Hardware > Device Manager. Expand the Network Adapters category. If the 802.11n/b/g

Mini Wireless LAN USB2.0 Adapter is listed here, it means that the device is properly installed and enabled.



NETWORK CONNECTION

IP ADDRESS

Note:

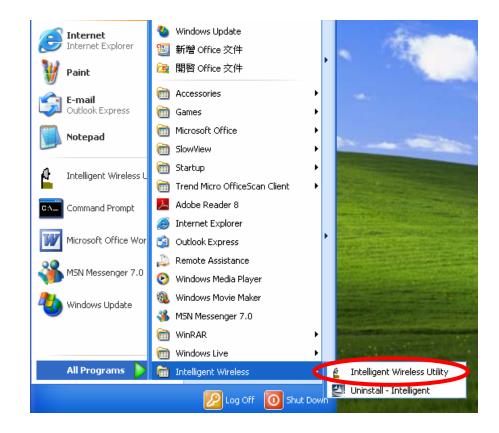
When assigning IP address(es) to computers on the network, remember to have IP address for each computer set on the same subnet mask. If the Broadband Router has been enabled DHCP server function, it won't be necessary to assign static IP address for PC.

- 1. To configure a dynamic IP address (i.e. if the broadband Router is enabled the DHCP server), check the **Obtain an IP address automatically** option.
- To configure a fixed IP address (if DHCP server is not enabled in Broadband Router, or when PC needs to be assigned a static IP address), check the Use the following IP address option. Then, enter an IP address into the empty field; for example, enter 192.168.1.1 in the IP address field, 255.255.255.0 for the Subnet Mask, and 192.168.1.254 for the default gateway.

Internet Protocol (TCP/IP) Properties	Internet Protocol (TCP/IP) Properties
General Alternate Configuration	General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically	Obtain an IP address automatically
Use the following IP address:	· ⊙ Use the following IP address:
IP address:	IP address: 192 . 168 . 1 . 1
Subnet mask:	Subnet mask: 255 . 255 . 0
Default gateway:	Default gateway: 192 . 168 . 1 . 254
 Obtain DNS server address automatically 	Obtain DNS server address automatically
O Use the following DNS server addresses:	● Use the following DNS server addresses:
Preferred DNS server:	Preferred DNS server:
Alternate DNS server:	Alternate DNS server:
Advanced	Advanced
OK Cancel	OK Cancel

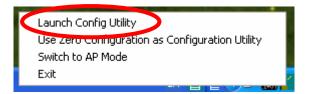
CHAPTER 3: UTILITY CONFIGURATION FOR WINDOWS 2000/XP

After the Wireless LAN USB Adapter has been successfully installed, users can use the included Configuration Utility to set the preference.



Go to Start \rightarrow (All) Program \rightarrow Intelligent Wireless \rightarrow Intelligent Wireless Utility.

Users can also open the Configuration Utility by double clicking or right clicking the icon in the tray to select **Launch Config Utility**.



STATION MODE

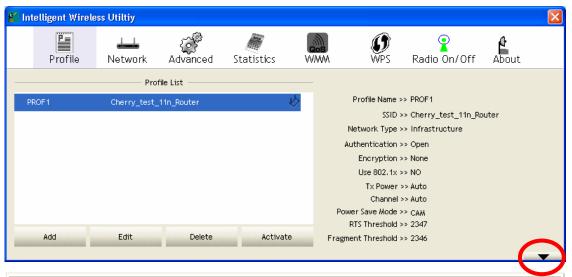
IMPORTANT NOTICE:

Under screen resolution 800 x 600 pixels, if users click the triangle button at the right down corner of the utility windows to expand the station linking information that will NOT be displayed completely.

Profile

Profile can let users book keeping the favorite wireless setting among home, office, and other public hot-spot. Users may save multiple profiles, and activate the correct one at preference. The Profile manager enables users to **Add**, **Edit**, **Delete**, and **Activate** profiles.

- Click this button to show the information of Status Section.
- Click this button to hide the information of Status Section.



Profile Tab	
Profile Name	Here shows a distinctive name of profile in this column. The default is PROF# (#1, #2, #3)
SSID	The SSID is the unique name shared among all wireless access points in the wireless network.
Network Type	Shows the network type of the device, including Infrastructure and Ad-hoc.
Authentication	Shows the authentication mode.

Encryption	Shows the encryption type.
Use 802.1x	Whether or not use 802.1x feature.
Tx Power	Transmit power, the amount of power used by a radio transceiver to send the signal out.
Channel	Shows the selected channel that is currently in use.
Power Save Mode	Choose from CAM (Constantly Awake Mode) or PSM (Power Saving Mode.)
RTS Threshold	Shows the RTS Threshold of the device.
Fragment Threshold	Shows the Fragment Threshold of the device.
Add	Click to add a profile from the drop-down screen.
	System Configuration tab:

	igent Wireless	Utiltiy							
	Profile	LLL Network	Advanced) Statistics	Qos WMM	Ø WPS	Radio On/Off	About	
		Pro	file List						
PROF	1	Cherry_test_	11n_Router		6	Profile Name >	PROF1		
							> Cherry_test_11n_R	outer	
						Network Type >			
						Authentication > Encryption >			
						Use 802.1x >			
						Tx Power >	> Auto		
						Channel >			
						Power Save Mode > RTS Threshold >			
-	Add	Edit	Delete	Activa	ite Fra	agment Threshold >	> 2346		
	Add	Edit	Delete	Activa	ite Fra		> 2346		
>					ite Fra		> 2346		•
>	Add	Edit Auth. \ Enc		Activa 24X	ite Fra		> 2346		•
>	stem Config	Auth. \ Enc				agment Threshold >) -	^
>		Auth. \ Enc			Network Type	agment Threshold > >> Infrastru	icture 🔻		^
>	stem Config Profile Name :	Auth. \ Enc	ny. 80			agment Threshold > >> Infrastru	icture 🔻		^
>	stem Config Profile Name :	Auth. \ Enc	ny. 80		Network Type	agment Threshold > >> Infrastr. >> Auto	icture 🔻		•
>	stem Config Profile Name : SSID :	Auth. \ Enc	ry. 87 t_11n_Router	211	Network Type Tx Power	agment Threshold > >> Infrastru >> Auto	icture 🔻		•
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Profile Name: Users can enter profile name, or use default name defined by system. The default is PROF# (#1, #2, #3....).

SSID: The **SSID** is the unique name shared among all wireless access points in the wireless network. The name must be identical for all devices and wireless access points attempting to connect to the same network. Users can use pull-down menu to select from available access points.

Network Type: There are two types, **Infrastructure** and **Ad-hoc** modes. Under Ad-hoc mode users can also choose the preamble type, the available preamble type includes **Auto** and **Long**. In addition to that, the channel field will be available for setup in Ad-hoc mode.

• The **Infrastructure** is intended for the connection between wireless network cards and an access point. With the Wireless LAN USB Adapter, users can connect wireless LAN to a wired global network via an access point.

• The **Ad-hoc** lets users set a small wireless workgroup easily and quickly. Equipped with the Wireless LAN USB Adapter, users can share files and printers between each PC and laptop.

Tx Power: Transmit power, the amount of power used by a radio transceiver to send the signal out. Select the Tx power percentage from the pull-down list including Auto, 100%, 75%, 50%, 25%, 10% and Lowest.

Preamble: This function will show up when Ad-hoc network type be selected. A preamble is a signal used in wireless environment to synchronize the transmitting timing including Synchronization and Start frame delimiter. Select from the pull-down menu to change the Preamble type into **Auto** or **Long**.

Power Save Mode:

- CAM (Constantly Awake Mode): When this mode is selected, the power supply will be normally provided even when there is no throughput. (Default power save mode is CAM.)
- **PSM** (**Power Saving Mode**): When this mode is selected, this device will stay in power saving mode even when there is high volume of throughput.

RTS Threshold: Users can adjust the RTS threshold number by sliding the bar or key in the value directly. (The default value is 2347.) RTS/CTS Threshold is a mechanism implemented to prevent the "Hidden Node" problem. If the "Hidden Node" problem is an issue, users have to specify the packet size. <u>The RTS/CTS mechanism will be activated if the data size exceeds the values that have been set.</u>

This value should remain at its default setting of 2347. Should users encounter inconsistent data flow, only minor modifications of this value are recommended.

Fragment Threshold: Users can adjust the Fragment threshold number by sliding the bar or key in the value directly. (The default value is 2346.) The mechanism of Fragmentation Threshold is used to improve the efficiency when high traffic flows along in the wireless network. If the Wireless LAN USB Adapter often transmits large files in wireless network, users can enter new Fragment Threshold value to split the packet. The value can be set from 256 to 2346.

Authentication and Security tab:

Authentication >>	Open	•	Encryption >> None	▼ [802.1X
WPA Preshared Key >>					
Wep Key					
Ø Key≢1	Hexadecimal	-		S 🗌	how Password
🖉 Key#2	Hexadecimal	-			
	Hexadecimal	- F			
Key#4	Hexadecimal	F			

Authentication Type: There are several types of authentication modes including Open, Shared, Leap, WPA, WPA-PSK, WPA2 and WPA2-PSK.

• **Open**: If the access point or wireless router is using "**Open**" authentication, then the Wireless LAN USB Adapter will need to be set to the same authentication type.

secret k	ey.				recipient	
authenti encrypt	cation type s data transi	used primar missions usir	ily in Cisco 1g dynamic	rotocol. It is a o Aironet WL cally generate vith CCX mo	ANs. It d WEP k	-
authenti WPA-P	cations offe SK, select t	er two encrypher two encrypher type of al	otion metho gorithm TI	WPA or WPA ods, TKIP and KIP or AES a WPA Pre-sh	d AES. F nd then e	enter a
selection of WPA-PSH	of encryption	n type are No. 2-PSK autho	one and W	thentication n EP. For WPA node, the enc	A, WPA2	2,
STA. For	WPA-PSK	and WPA	2-PSK aut	secret key b hentication n d less than 64	node, th	is field
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EAP Method:

- **PEAP**: Protect Extensible Authentication Protocol. PEAP transport securely authentication data by using tunnelling between PEAP clients and an authentication server. PEAP can authenticate wireless LAN clients using only server-side certificates, thus simplifying the implementation and administration of a secure wireless LAN.
- TLS / Smart Card: Transport Layer Security. Provides for certificate-based and mutual authentication of the client and the network. It relies on client-side and server-side certificates to perform authentication and can be used to dynamically generate user-based and session-based WEP keys to secure subsequent communications between the WLAN client and the access point.
- **TTLS**: Tunnelled Transport Layer Security. This security method provides for certificate-based, mutual authentication of the client and network through an encrypted channel. Unlike EAP-TLS, EAP-TTLS requires only server-side certificates.
- **EAP-FAST**: Flexible Authentication via Secure Tunnelling. It was developed by Cisco. Instead of using a certificate, mutual authentication is achieved by means of a PAC (Protected Access Credential) which can be managed dynamically by the authentication server. The PAC can be provisioned (distributed one time) to the client either manually or automatically. Manual provisioning is delivery to the client via disk or a secured network distribution method. Automatic provisioning is an in-band, over the air, distribution. For tunnel authentication, only support "Generic Token Card" authentication now.
- **MD5-Challenge**: Message Digest Challenge. Challenge is an EAP authentication type that provides base-level EAP support. It provides for only one-way authentication there is no mutual authentication of wireless client and the network. (Only Open and Shared authentication mode can use this function.)

Tunnel Authentication:

- **Protocol**: Tunnel protocol, List information including EAP-MSCHAP v2, EAP-TLS/ Smart Card, and Generic Token Card.
- Tunnel Identity: Identity for tunnel.
- Tunnel Password: Password for tunnel.

Session Resumption: Reconnect the signal while broken up, to reduce the packet and improve the transmitting speed. Users can click the box to enable or disable this function.

ID\PASSWORD tab:

EAP Method >> PEAP	▼ Tunnel Authentication >> EAP-MSCHAP v2 ▼ Session Resumpt
ID \ PASSWORD	Client Certification Server Certification
Identity >> Tunnel ID / Password — Tunnel ID >>	Password >> Domain Name >> Tunnel Password >> Tunnel Password >>

ID/ PASSWORD: Identity and password for server.

- Authentication ID / Password: Identity, password and domain name for server. Only "EAP-FAST" EAP method and "LEAP" authentication can key in domain name. Domain name can be keyed in blank space.
- **Tunnel ID / Password:** Identity and Password for server.

Show Password: Check this box to show the passwords that have been entered.

OK: Click to save settings and exit this page.

Cancel: Click to call off the settings and exit.

Client Certification tab:

AP Method >> PEAP	 Tunnel Auther 	itication >> EAP-MSCHAP v2	 Session Resumption
ID \ PASSWORD	Client Certification	Server Certification	
Use Client certifi	icate		¥
	issued To >>		
	Issued By >>		
E			
Frie	endly Name >>		

Use Client certificate: Choose to enable server authentication.

OK: Click to save settings and exit this page.

Cancel: Click to call off the settings and exit.

Server Certification tab:

ystem Config Auth. \Encry.	8021X Funnel Authentication >> EAP-MSCHAP v2 Session Resumpl	tion
	tification Server Certification	
Use certificate chain		
	Allow intermidiate certificates	
	 Server name must match Domain name must end in specified name 	
	OK Cancel	

Use certificate chain: Choose use server that issuer of certificates.

Allow intimidate certificates: It must be in the server certificate chain between the server certificate and the server specified in the certificate issuer must be field.

Server name: Enter an authentication sever.

Server name must match: Click to enable or disable this function.

Domain name must end in specified name: Click to enable or disable this function.

OK: Click to save settings and exit this page.

Cancel: Click call off the settings and exit.

Delete	Click to delete an existing profile.
Edit	Click to edit a profile.
Activate	Click to make a connection between devices.

Network

The Network page displays the information of surrounding APs from last scan result. The tab lists the information including SSID, Network type, Channel, Wireless mode, Security-Enabled and Signal.

🖌 Intelligent Wirele	ess Utiltiy							X
Profile	Network	ر Advanced	Statistics	www.	Ø WPS	Radio On/Off	About	
Sorted by >>	O SSID	🥝 Cha	nnel 🖉	Signal		Show dBm		
airlive-wI5470poe ▶ Cherry_test_11n_R	outer	ゆ11 ゆ7	9 99 94 9	39%				•
Rescan	Add to Profi	le Con	nect					

Network Tab						
Sorted by	Indicate that AP list are sorted by SSID, Channel or Signal.					
Show dBm	Check the box to show the dBm of the AP list.					
SSID	Shows the name of BSS network.					
Network Type	Network type in use, Infrastructure for BSS, Ad-Hoc for IBSS network.					
Channel	Shows the currently used channel.					
Wireless mode	AP support wireless mode. It may support 802.11b, 802.11g or 802.11n wireless mode.					
Encryption	Shows the encryption type currently in use. Valid value includes WEP, TKIP, AES, Not Use and WPS.					
Signal	Shows the receiving signal strength of specified network.					
Rescan	Click to search and refresh the access point list.					

Add to Profile	Select an item (SSID) on the list and then click to add it into the profile list.
Connect	Select an item (SSID) on the list and then click to make a connection.

Access Point (AP) Information

Double click on the intended AP to see AP's detail information that divides into four parts. They are General, WPS, CCX and 802.11n information. The introduction is as following:

General	General WPS CCX 802.11n						
	SSID >> Cherry_test_11n_Router MAC Address >> 00-E0-4C-86-51-01 Signal Strength >> 100X Authentication Type >> Unknown Supported Rates (Mbps) Encryption Type >> None 1, 2, 5.5, 11, 6, 9, 12, 18, 24, 36, 48, 54 Channel >> 7 <> 2442 MHz 1, 2, 5.5, 11, 6, 9, 12, 18, 24, 36, 48, 54 Network Type >> Infrastructure Encryption Beacon Interval >> 100 Close						
	General information contain AP's SSID, MAC address, Authentication Type, Encryption Type, Channel, Network Type, Beacon Interval, Signal Strength and Supported Rates. Close : Click this button to exit the information screen.						
WPS	General WPS CCX 802.11n Authentication Type >> Unknown State >> Configured Encryption Type >> None Version >> 1.0 Config Methods >> Unknown AP Setup Locked >> Device Password ID >> UUID-E >> UUID-E >> Selected Registrar >> Unknown RF Bands >> Unknown						
	Close WPS information contains Authentication Type, Encryption Type, Config Methods, Device Password ID, Selected Registrar, State, Version, AP Setup Locked, UUID-E and RF Bands.						
	Authentication Type: There are four types of authentication modes supported by RaConfig. They are Open, Shared, WPA-PSK, WPA securities, WPA2-PSK and WPA2.						
	Encryption Type : For Open and Shared authentication mode, the selection of encryption type are None and WEP. For WPA, WPA2, WPA-PSK and WPA2-PSK authentication mode, the encryption type supports both TKIP and AES.						
	Config Methods : Correspond to the methods the AP supports as an Enrollee for adding external Registrars.						
	Device Password ID : Indicate the method or identifies the specific password that the selected Registrar intends to use.						

	Selected Registrar : Indicate if the user has recently activated a Registrar to add an Enrollee. The values are "TRUE" and "FALSE"									
	State : The current configuration state on AP. The values are "Unconfigured" and "Configured."									
	Version: WPS specified version.									
	AP Setup Locked: Indicate if AP has entered a setup locked state.									
	UUID-E : The universally unique identifier (UUID) element generated by the Enrollee. There is a value. It is 16 bytes.									
	RF Bands : Indicate all RF bands available on the AP. A dual-band AP must provide it. The values are "2.4GHz."									
	Close : Click this button to exit the information screen.									
CCX	General WPS CCX 802.11n									
	CCKM >> FALSE Cmic >> FALSE Ckip >> FALSE									
	Clase									
	CCX information contains CCKM, Cmic and Ckip information. Close: Click this button to exit the information screen.									
802.11n	General WPS CCX 802.11n									
	Secondary Channel Offset element Secondary Channel Offset element U Extended Capabilities information element HT Information Exchange Support High Dreagen element Mobility Demain KALSE High Throughput HT Capabilities element HT Capabilities eleme									
	Clase									
	This tab will show up if the selected access point supports 11n mode. Here shows the connected access point 802.11n related information.									

Link Status

Click the triangle button at the right down corner of the windows to expand the link status. The link status page displays the detail information of current connection.

- Click this button to show the information of Status Section.
- Click this button to hide the information of Status Section.

Intelligent Wirel	ess Utiltiy						
Profile	Land Network	ر Advanced	Statistics	NAMA	Ø WPS	Radio On/Off	About
Sorted by >>	O SSID	🥝 Cha	nnel 🥝	Signal		Show dBm	
airlive-wI5470poe Cherry_test_11n_F	outer	1911 1977	9 9904)	39%			_
Rescan	Add to Profil		nect)0-E0-4C-86-51-01		Link (Quality >> 100%	
Status Extra Info	Add to Profil >> Cherry_test_ >> Link is Up [Tx >> 7 <> 2442 M	_11n_Router <> 0 Power:100%])0-E0-4C-86-51-01		Signal St	Quality >> 100% rrength 1 >> 100% Strength >> 26%	- {
Status Extra Info Channel Authentication Encryption Network Type IP Address Sub Mask	 >> Cherry_test_ >> Link is Up [Tx >> 7 <> 2442 M >> Open 	_11n_Router <> C Power:100%] iHz; central chann re 1 0)0-E0-4C-86-51-01	Transmit — Link Speed >> Throughput >>	Signal St Noise : 135.0 Mbps	rength 1 >> 100%	

Link Status Tab					
Status	Shows the current connected AP SSID and MAC address. If there is no connection existing, it will show Disconnected.				
Extra Info	Shows the link status and TX power percentage.				
Channel	Shows the current channel in use.				
Authentication	Authentication mode used within the network, including Unknown, Open, Shared, Leap, WPA-PSK, WPA2-PSK, WPA and WPA2.				
Encryption	Shows the encryption type currently in use. Valid value includes WEP, TKIP, AES, and Not Use.				
Network Type	Network type in use, Infrastructure for BSS, Ad-Hoc for IBSS network.				
IP Address	Shows the IP address information.				
Sub Mask	Shows the Subnet Mask information.				
Default Gateway	Shows the default gateway information.				
Link Quality	Shows the connection quality based on signal strength and TX/RX packet error rate.				

Signal Strength 1	Shows the receiving signal strength, users can choose to display as percentage or dBm format.			
Noise Strength	Shows the noise signal strength in the wireless environment.			
Transmit Shows the current Link Speed and Throughput of the transmit rate.				
Receive	Shows the current Link Speed and Throughput of receive rate.			
Link Speed	Shows the current transmitting rate and receiving rate.			
Throughput	Shows the transmitting and receiving speed of data.			

Advanced

This Advanced page provides advanced and detailed settings for the wireless network.

A [©] Inte	P Intelligent Wireless Utiltiy									
	Profile	Handreine Network	Advanced	Statistics	www.	Ø WPS	Radio On/Off	About		
Win	eless mode >>	•		Enable CCX (Cisco Compatible eXtensions) Turnion CCKM Enable Radio Measurements						
	Enable TX Burst Enable TCP Windo Fast Roaming at	ow Size			25		el Measurements limit J)			
11	Show Authentica Select You B/G >>	tion Status Dialo; r Country Regior 1: CH1-13		<u></u>						
	Apply								_	

Advanced Tab					
Wireless mode Here supports 2.4G (included 802.11b/g/n) wireless mode.					
Enable TX Burst	Check to enable this function. This function enables the Wireless LAN USB Adapter to deliver better throughput during a period of time, it only takes effect when connecting with the AP that supports this function.				
Enable TCP Window Size	Check to increase the transmission quality. The large TCP window size the better performance.				
Fast Roaming at dBm	Check to set the roaming interval, fast to roaming, setup by transmits power. (Default setting is -70dBm.)				
Show Authentication Status Dialog	When connected AP with authentication, choose whether show "Authentication Status Dialog" or not. Authentication Status Dialog displays the process about 802.1x authentications.				

Enable CCX	Check to enable the CCX function.
(Cisco Compatible extensions)	• Turn on CCKM.
(AUDIONS)	• Enable Radio Measurements: Check to enable the Radio measurement function.
	• Non-Serving Measurements limit: Users can set channel measurement every 0~2000 milliseconds. (Default is set to 250 milliseconds.)
Apply	Click to apply above settings.

Statistics

The Statistics screen displays the statistics on the current network settings.

🖌 Inte	elligent Wirele	ess Utiltiy							
	Profile	Network	کی Advanced	Statistics	www.	Ø WPS	Radio On/Off	About	
<	Transmit	Receive							
	Frames ⁻	Transmitted Succe	ssfully		=		1836		
	Frames F	Retransmitted Suc	cessfully		= 30836		836		
	Frames F	Fail To Receive AC	(After All Retries		=		174		
	RTS Fran	nes Successfully Re	ceive CTS		-		0		
	RTS Frames Fail To Receive CTS				=		0		
Re	eset Counter								-

Transmit	
Frames Transmitted Successfully	Shows information of packets successfully sent.
Frames Retransmitted Successfully	Shows information of packets successfully sent with one or more reties.
Frames Fail To Receive ACK After All Retries	Shows information of packets failed transmit after hitting retry limit.
RTS Frames Successfully Receive CTS	Shows information of packets successfully receive CTS after sending RTS.
RTS Frames Fail To Receive CTS	Shows information of packets failed to receive CTS after sending RTS.
Reset Counter	Click this button to reset counters to zero.

Profile	Las Network	Advanced	Statistics	www.	Ø WPS	Radio On/Off	About	
Transmit 🕻	Receive							
Frames R	eceived Successfu		_	15	541			
	eceived With CRC		= 627					
Frames D	ropped Due To Ou	t-of-Resource	=		0			
Duplicate	Frames Received			-		0		

Receive Statistics					
Frames Received Successfully	Shows information of packets received successfully.				
Frames Received With CRC Error	Shows information of packets received with CRC error.				
Frames Dropped Due To Out-of-Resource	Shows information of packets dropped due to resource issue.				
Duplicate Frames Received	Shows information of packets received more than twice.				
Reset Counter	Click this button to reset counters to zero.				

WMM/ QoS

The WMM page shows the Wi-Fi Multi-Media power save function and Direct Link Setup (DLS) that ensure the wireless network linking quality.

🖌 Inte	lligent Wirele	ss Utiltiy							
	Profile	Lee Network	ر Advanced	Statistics	www.	Ø WPS	Radio On/Off	About	
- WMA	A Setup Status —								
	WMM >> E	nabled	Power Save >	> Disabled		D	irect Link >> Disabled		
	🔼 www	/ Enable							
		WMM - Power Sav	e Enable						
		AC_BK	AC_BE	AC_VI	AC_	VO			
		Direct Link Setup	Enable						
		MAC Address >>			Timeout Value >	> <u>60</u> S6	°C		
							App	ly	
							Tear I	Jown	
									-

WMM/QoS Ta	b
WMM Enable	Check the box to enable Wi-Fi Multi-Media function that is meant to improve audio, video and voice applications transmitted over Wi-Fi.
WMM- Power Save Enable	 Select a power save mode that preferred. AC_BK (Access Category Background) AC_BE (Access Category Best Effort) AC_VI (Access Category Video) AC_VO (Access Category Voice)
Direct Link Setup Enable	Check the box to enable Direct Link Setup (DLS). This function will be enabled under the connection with AP which must support the DLS function. Direct Link Setup allows direct STA-to-STA frame transfer within a BSS (Basic Service Set). This is designed for consumer use, where STA-to-STA transfer is more commonly used.
MAC Address	 The setting of DLS(Direct Link Setup) indicates as follow : Fill in the blanks of Direct Link with MAC Address of target STA, and the STA must conform to two conditions: Connecting with the same AP that supports DLS feature. DLS enabled.
Timeout Value	Timeout Value represents that it disconnect automatically after few seconds. The value is integer that must be between 0~65535. It represents that it always connects if the value is zero. (Default setting of Timeout Value is 60 seconds.)
Apply	Click this button to apply the settings.
Tear Down	Select a direct link STA MAC address, then click "Tear Down" button to disconnect the STA.

WPS

The primary goal of Wi-Fi Protected Setup (Wi-Fi Simple Configuration) is to simplify the security setup and management of Wi-Fi networks. The STA as an Enrollee or external Registrar supports the configuration setup using PIN (Personal Identification Number) configuration method or PBC (Push Button Configuration) method through an internal or external Registrar.

Intelligent Wirele	ess Utiltiy						
Profile	LLL Network A	dvanced	Statistics	www.	Ø WPS	Radio On/Off	A About
		WF	S AP List				
						F	Rescan Information Pin Code 16912113 Renew
		WPS	Profile List			L	Config Mode
Cherry_test_11n_	Router						Enrollee 🗾
<			1111				Detail Connect
PIN	WPS Associate IE			Progress >> 10	0%		Rotate
PBC	WPS Probe IE	PBC - G	et WPS profile succ	cessfully.			Disconnect
	Auto					-	Export Profile
						10	Delete

WPS Tab						
WPS AP List	Display the information of surrounding APs with WPS IE from last scan result. List information included SSID, BSSID, Channel, ID (Device Password ID), Security-Enabled.					
Rescan	Issue a rescan command to wireless NIC to update information on surrounding wireless network.					
Information	Display the information about WPS IE on the selected network. List information included Authentication Type, Encryption Type, Config Methods, Device Password ID, Selected Registrar, State, Version, AP Setup Locked, UUID-E and RF Bands.					
	General WPS CCX 802.11n					
	Authentication Type >> WPA-PSK State >> Configured					
	Encryption Type >> TKIP Version >> 1.0					
	Config Methods >> 0x008A AP Setup Locked >>					
	Device Password ID >> 0x0004 UUID-E >> 28802880288018804880000C432860E0					
	Selected Registrar >> TRUE RF Bands >> 0x01 (2.4GHz)					
	Close					
PIN Code	8-digit numbers. It is required to enter PIN Code into Registrar when using PIN method. When STA is Enrollee, users can use " Renew " button to re-generate new PIN Code.					
Config Mode	Select from the pull-down menu to decide the station role-playing as an Enrollee or an external Registrar.					
Detail	Click the Detail button to show the information about Security and Key in the credential.					

	Intelligent Wireless Utility
	Profile Network Advanced Statistics WWW WPS Radio On/Off About
	WPS AP List Pescan Information
	Pin Code 16912113 Renew WPS Profile List Config Mode
	Cherry_test_11n_Router
	PEC With S Frade IE PBC - Get WPS profile successfully. Utschniect Auto Delete
	SSID >> Cherry_test_t1n_Router
	BSSID >> 00-0C-43-30-70-00 Authentication Type >> OPEN Encryption Type >> NONE
	Authentication Type >> OPEN Encryption Type >> NONE Key Length >> Key Index >>
	Key Material >> Show Password
	OK Cancel
	If selected the AP that listed in the WPS Profile List field, users can click the Detail button to see more AP information.
	SSID: Shows the connected AP network name.
	BSSID : The MAC address of the connected AP. Fixed and cannot be changed.
	Authentication Type: The authentication type support Open, WPA-PSK and WPA2-PSK.
	Encryption Type: For Open authentication mode, the selection of encryption type are NONE and WEP . For WPA-PSK and WPA2-PSK authentication mode, the encryption type supports both TKIP and AES .
	Key Length: Only valid when using Open authentication mode and WEP encryption. There are key lengths 5, 10, 13 and 26.
	Key Index: Only valid when using Open authentication mode and WEP encryption. There are 1~4 key index.
	Key Material: The key material can be used to ensure the security of the wireless network. Fill in the appropriate value or phrase in Key Material field.
	Show Password: Check this box to show the passwords that have been entered.
	OK : Click to save and apply the new settings.
	Cancel: Click to leave and discard the settings.
Connect	Command to connect to the selected network inside credentials. The active selected credential is as like as the active selected Profile.
Rotate	Command to rotate to connect to the next network inside credentials.
Disconnect	Stop WPS action and disconnect this active link. And then select the last profile at the Profile Page. If there is an empty profile page, the driver will select any non-security AP.

Export Profile	Export all credentials to Profile.					
Delete	Delete an existing credential. And then select the next credential if exist. If there is an empty credential, the driver will select any non-security AP.					
PIN	Registrar : Add the AP's PIN code into the PIN code column, and press the device PIN button. It will connect with the AP in two minutes and get IP address.					
	Enrollee : Input the device's PIN code into the PIN code column of AP. Start AP WPS process and click device PIN button. Then, the device will connect to AP in two minutes and get IP address.					
РВС	Start to add to AP using PBC (Push Button Configuration) method. Click this button to connect the AP which supported WPS function within two minutes. Meanwhile, the AP should also click the PBC button simultaneously.					
connection. If use	ck PIN or PBC, please do not rescan within two minutes of the rs want to stop this setup within the interval, restart PIN/PBC or " to stop WPS action.					
After the users cli connection. If use	rs want to stop this setup within the interval, restart PIN/PBC or					
After the users cli connection. If use click "Disconnect	rs want to stop this setup within the interval, restart PIN/PBC or " to stop WPS action. Send the association request with WPS IE during WPS setup. It is optional					
After the users cli connection. If use click "Disconnect WPS Associate IE	Image: second start with the interval interv					
After the users cli connection. If use click "Disconnect WPS Associate IE WPS Probe IE	Image: second start by this setup within the interval, restart PIN/PBC or to stop WPS action. Image: second start by the					

Radio On/Off

Click this Radio On/Off button to turn ON or OFF radio function.



This icon shows radio off, click to turn it on.

About

This page displays the information of the Wireless LAN USB Adapter including, Config Version/ Date, Driver Version/ Date, EEPROM Version, Firmware Version and Phy_Address.

💕 Intel	ligent Wirele	ess Utiltiy							
	Profile	Hetwork	Advanced	Statistics	WWW	Ø WPS	Radio On/Off	About	
		Config Ve	rsion >> 2.1.5	.0		Date >>	06-23-2008		
		Driver Ve	rsion >> 1.2.1	.0		Date >>	07-30-2008		
		EEPROM Ve	rsion >> 1.0		Firmware	Version >>	0.12		
		Phy_Ad	dress >> 00-1	2-0E-6B-58-3B					
								_	-

UTILITY MENU LIST

To access the utility menu list, please right click the utility icon on the task bar.

Launch Config Utility Use Zero Configuration as Configuration Utility Switch to AP Mode Exit

- Launch Config Utility: Select to open the utility screen.
- Use Zero Configuration as Configuration Utility: Select to use the Window XP built-in utility (Zero configuration utility).
- Switch to AP Mode: Select to make the Wireless LAN USB Adapter act as a wireless AP.
- **Exit**: Select to close the utility program.

SOFT AP MODE

Config

ntig Access Control	Mac Table Event Log	Statistics About	
1	KAP	Channel 1 💌	
Wireless Mode	G 🔽	<- Use Mac Address	Security Setting
- Country Region Code-	1	No forwarding amo	ong wireless clients
11 B/G 0: CH1-	11 <u>×</u>	Hide SSID	
		Allow BW 40 MHz	
Beacon (ms)	100		
TX Power	100 % 💌		
Idle time(60 - 3600)(s)	300		
		Default Car	icel Apply

Config	
SSID	AP name of user type. Users also can click Use Mac Address button to display it.
Channel	Manually force the AP using the channel. (The system default is CH 1.)
Wireless Mode	Here supports 2.4G (included 802.11b/g/n) wireless mode. (The system default is 2.4G.)
Use Mac Address	Click this button to replace SSID by MAC address.
Security Setting	Authentication mode and encryption algorithm used within the AP. (The system default is no authentication and encryption.)

	Security Setting
	Authentication Type Open Encryption Type Not Use
	WPA Pre-shared-Key
	Group Rekey Interval 60 10 seconds
	Wep Key
	€ Key#1 Hex ▼
	C Key#2 Hex
	C Key#3 Hex
	C Key#4 Hex
	* WEP 64 Bits Encryption: Please Keyin 10 HEX characters or 5 ASCII characters * WEP 128 Bits Encryption: Please Keyin 26 HEX characters or 13 ASCII characters
	Show Password
	OK Cancel
	Authentication Type: There are several types of authentication modes
	including Open, Shared, WPA-PSK, WPA2-PSK, and WPA-PSK/
	WPA2-PSK. (System authentication type default is Open.)
	Encryption Type: For Open and Shared authentication mode, the
	selections of encryption type are Not Use and WEP. For WPA-PSK,
	WPA2-PSK, and WPA-PSK/ WPA2-PSK authentication mode, the encryption type supports both TKIP and AES. (System authentication
	type default is Not Use.)
	WPA Pre-shared Key : This is the shared secret between AP and STA.
	For WPA-PSK and WPA2-PSK and WPA-PSK/WPA2-PSK
	authentication mode, this field must be filled with character longer than 8
	and less than 64 lengths.
	Group Re-key Interval: Only valid when using WPA-PSK, WPA2-PSK,
	and WPA-PSK/ WPA2-PSK authentication mode to renew key. Users can set to change by seconds or packets. (Default is 600 seconds.)
	WEP Key : Only valid when using WEP encryption algorithm. The key must match with the AP's key. There are four formats to enter the keys.
	 ASCII (64 bits): 5 ASCII characters (case sensitivity).
	 ASCII (128 bits): 13 ASCII characters (case sensitivity). ASCII (128 bits): 13 ASCII characters (case sensitivity).
	• Hexadecimal (64 bits): 10 Hex characters (0~9, a~f).
	• Hexadecimal (128 bits): 26 Hex characters (0~9, a~f).
	Show Password: Check this box to show the passwords that have been
	entered.
Beacon (ms)	The time between two beacons. (The system default is 100 ms.)
TX Power	Manually force the AP transmits power from the pull-down list 100%, 75%, 50%, 25% and lowest. (The system default is 100%)
Idle time(60-3600)(s)	It represents that the AP will idle after few seconds. The time must be set between 60~3600 seconds. (Default value of idle time is 300 seconds.)

No forwarding among wireless clients	No beacon among wireless client, clients can share information each other. (The system default is no forwarding.)
Hide SSID	Do not display AP name. (System default is disabled.)
Allow BW 40MHz	 Click to disable this function. (System default is enabled.) This function enables the adapter to deliver better throughput, enable this function the link speed will up to 300Mbps, disable this function the link speed will up to 150Mbps only. Note: This function depends on the capability of device. Here supports link speed up to 150Mbps only, DO NOT support link speed up to 300Mbps.
Tx BURST	This function enables the adapter to deliver better throughput during a period, it only takes effect when connecting with the AP that supports this function. (Default setting is enabled.)
Default	Use the system default value.
Apply	Click to apply the above settings.

Access Control

🖌 Intelligent Wirel	ess Utility 🛛 🗙
Config Access Contro	Mac Table Event Log Statistics About
Access Policy	Disable
MAC Address	Access List
I I I I I I I I I I I I I I I I I I I	
	Add
	Delete
	Remove All
	- Henove Ali
	Apply

Access Cont	rol
Access Policy	User chooses whether AP start the function or not. (System default is Disable.)
	• Disable: Do not use this access control function.
	• Allow All: Only the MAC address listed in the Access List can connect with this soft AP.
	• Reject All: Only the MAC address listed in the Access List can NOT connect with this soft AP.
MAC Address	Manually force the MAC address using the function. Enter the MAC address in the column and click Add button, then the MAC address will be listed in the Access List pool.
Access List	Display all MAC Address that have been set.
Add	Add the MAC address that users would like to set.
Delete	Delete the Mac address that has been set.
Remove All	Remove all Mac address in the Access List.
Apply	Apply the above changes.

MAC Table

MAC Addre	BSS	AID	Power S	Status	
<					>
					1

MAC Table			
MAC Address	The station MAC address of current connection.		
AID	Raise value by current connection.		
Power Saving Mode	The station of current connect whether it have to support.		
Status	The status of current connection.		

Event Log

Event Time (yy/mm/dd-hh:mm:ss) Message				
2008 / 06 / 03 - 14 : 19 : 44	Restart Access Point			
	Clear			

Event Log			
Event Time (yy/mm/dd-hh:mm:ss)	Records the event time.		
Message	Records all the event messages.		

Statistics

Intelligent Wireless Utility		
Config Access Control Mac Table Event Log Stati	stics About	
- Transmit Statistics		
Frames Transmitted Successfully	=	185
Frames Fail To Receive ACK After All Retries	=	0
RTS Frames Successfully Receive CTS	=	0
RTS Frames Fail To Receive CTS	=	0
Frames Transmitted Successfully After Retry	=	0
 ⊢ Receive Statistics		
Frames Received Successfully	=	0
Frames Received With CRC Error	=	718
Frames Dropped Due To Out-of-Resource	=	0
Duplicate Frames Received	=	0
		BESET COUNTERS
	I	·

Transmit Statistics				
Frames Transmitted Successfully	Shows information of packets successfully sent.			
Frames Fail To Receive ACK After All Retries	Shows information of packets failed transmit after hitting retry limit.			
RTS Frames Successfully Receive CTS	Shows information of packets successfully receive CTS after sending RTS.			
RTS Frames Fail To Receive CTS	Shows information of packets failed to receive CTS after sending RTS.			
Frames Transmitted Successfully After Retry	Shows information of packets successfully sent with one or more reties.			
Receive Statistics				
Frames Received Successfully	Shows information of packets received successfully.			
Frames Received With CRC Error	Shows information of packets received with CRC error.			
Frames Dropped Due To Out-of-Resource	Shows information of packets dropped due to resource issue.			

Duplicate Frames Received	The number of duplicate packets received.
Reset Counter	Reset counters to zero.

About

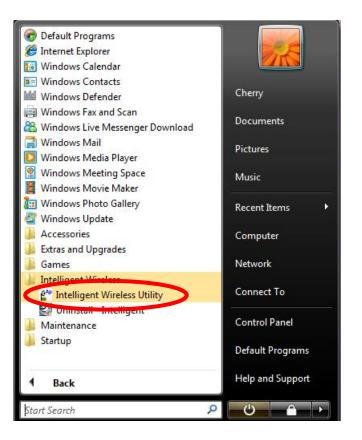
This page displays the Wireless LAN USB Adapter and driver version information.

	Utility Version :	2.0.5.0	Date :	06-23-2008
	Driver Version :	1.2.1.0	Date :	07-30-2008
	EEPROM Version :	1.0	Firmware Version :	0.12
[IP Address :	192.168.123.1	Phy_Address :	00-12-0E-6B-58-3B
	Sub Mask :	255.255.255.0	Default Gateway :	

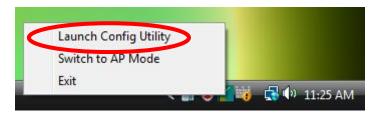
FOR WINDOWS VISTA

After the Wireless LAN USB Adapter has been successfully installed, users can use the included Configuration Utility to set the preference.

Go to Start→ (All) Program→ Intelligent Wireless→ Intelligent Wireless Utility.



Open the Configuration Utility by double clicking or right clicking the icon in the tray to select Launch Config Utility.



STATION MODE

Profile

Profile can book keeping the favorite wireless setting among home, office, and other public hot-spot. Users may save multiple profiles, and activate the correct one at preference. The Profile manager enables users to **Add, Edit, Delete,** and **Activate** profiles.

- Click this button to show the information of Status Section.
- Click this button to hide the information of Status Section.

MIIII	igent Wireless	Utiltiy							X
	Profile	Network	Advanced	Statistics	QoS WMM	() WPS	Radio On/Off	About	
		Pro	file List						
PRO	F1	Cherry_test_	11n_Router		5	Profile Name >	> PROF1		
						SSID >	> Cherry_test_11n_Ro	uter	
						Network Type >	> Infrastructure		
						Authentication >	> Open		
						Encryption >	> None		
						Use 802.1x >	> NO		
						Tx Power >	> Auto		
						Channel >	> Auto		
						Power Save Mode >			
						RTS Threshold >			
(Carlos and Carlos an	Add	Edit	Delete	Activate	Fra	agment Threshold >	> 2346		
								(-

Profile Tab				
Profile Name	Users may enter a distinctive name of profile in this column. The default is PROF# (#1, #2, #3)			
SSID	The SSID is the unique name shared among all wireless access points in the wireless network.			
Network Type	Shows the network type of the device, including Infrastructure and Ad-hoc.			
Authentication	Shows the authentication mode.			
Encryption	Shows the encryption type.			
Use 802.1x	Whether use 802.1x feature or not.			
Tx Power	Transmit power, the amount of power used by a radio transceiver to send the signal out.			
Channel	Shows the selected channel that is currently in use.			

Power Save Mode	Choose from CAM (Constantly Awake Mode) or PSM (Power Saving Mode.)					
RTS Threshold	Shows the RTS Threshold of the device.					
Fragment Threshold	Shows the Fragment Threshold of the device.					
	Shows the Fragment Threshold of the device. Click to add a profile from the drop-down screen. System Configuration tab: Image: Strength Stre					
	• The Infrastructure is intended for the connection between wireless network cards and an access point. With the Wireless LAN USB Adapter, users can connect wireless LAN to a wired global network via an access point.					
	• The Ad hoc lets users set a small wireless workgroup easily and quickly. Equipped with the Wireless LAN USB Adapter, users can share files and printers between each PC and laptop.					
	Tx Power : Transmit power, the amount of power used by a radio transceiver to send the signal out. Select the Tx power percentage from the pull-down list including Auto , 100%, 75%, 50%, 25%, 10% and Lowest .					
	Preamble : This function will show up when Ad-hoc network type be selected. A preamble is a signal used in wireless environment to synchronize the transmitting timing including Synchronization and Start					

frame delimiter. Select from the pull-down menu to change the Preamble type into **Auto** or **Long**.

Power Save Mode:

- CAM (Constantly Awake Mode): When this mode is selected, the power supply will be normally provided even when there is no throughput. (Default power save mode is CAM.)
- **PSM** (**Power Saving Mode**): When this mode is selected, this device will stay in power saving mode even when there is high volume of throughput.

RTS Threshold: Users can adjust the RTS threshold number by sliding the bar or key in the value directly. (The default value is 2347.) RTS/CTS Threshold is a mechanism implemented to prevent the "**Hidden Node**" problem. If the "Hidden Node" problem is an issue, users have to specify the packet size. <u>The RTS/CTS mechanism will be activated if the data size</u> <u>exceeds the value that have been set</u>. This value should remain at its default setting of 2347. Should users encounter inconsistent data flow, only minor modifications of this value are recommended.

Fragment Threshold: Users can adjust the Fragment threshold number by sliding the bar or key in the value directly. (The default value is 2346.) The mechanism of Fragmentation Threshold is used to improve the efficiency when high traffic flows along in the wireless network. If the Wireless LAN USB Adapter often transmits large files in wireless network, users can enter new Fragment Threshold value to split the packet. The value can be set from 256 to 2346.

Authentication and Encryption tab:

Profile	Line Network	Advanced	Statistics	WMM	() WPS	Radio On/Off	About
	P	rofile List					
Add	Cherry_te	st_11n_Router	Activate	Pov		<pre>>> Cherry_test_11n_Ra >> Infrastructure >> Open >> None >> NO >> Auto >> Auto >> CAM >> 2347</pre>	uter
		and an other states of the state of the stat	and the owner of the				
System Confin Aut	Auth \ F	Open	Encryp		one 🔻	802.1X	
Aut							
Aut WPA Pre	hentication >>						
Auti WPA Pro We	hentication >> eshared Key >>						
Auti WPA Pro We	hentication >> eshared Key >> ep Key	Open •				802.1X	
Auti WPA Pro We	hentication >> eshared Key >> ep Key @ Key#1	Open •				802.1X	
Auti WPA Pro We	hentication >> eshared Key >> ep Key Key#1 Key#2	Open • Hexadecimal				802.1X	

Authentication Type: There are six type of authentication modes including Open, Shared, WPA, WPA-PSK, WPA2 and WPA2-PSK.

- **Open**: If the access point or wireless router is using "**Open**" authentication, then the Wireless LAN USB Adapter will need to be set to the same authentication type.
- **Shared**: Shared key is when both the sender and the recipient share a secret key.

• WPA/ WPA-PSK/ WPA2/ WPA2-PSK: WPA-PSK offers two encryption methods, TKIP and AES. Select the type of algorithm, TKIP or AES and then enter a WPA Shared Key of 8-63 characters in the WPA Pre-shared Key field.
Encryption Type: For Open and Shared authentication mode, the selection of encryption type are None and WEP. For WPA, WPA2, WPA-PSK and WPA2-PSK authentication mode, the encryption type supports both TKIP and AES.
WPA Pre-shared Key : This blank is the shared secret key between AP and STA. For WPA-PSK and WPA2-PSK authentication mode, this field must be filled with character longer than 8 and less than 64 lengths.
 WEP Key: Only valid when using WEP encryption algorithm. The key must match with the AP's key. There are four formats to enter the keys. ASCII (64 bits): 5 ASCII characters (case sensitivity). ASCII (128 bits): 13 ASCII characters (case sensitivity). Hexadecimal (64 bits): 10 Hex characters (0~9, a~f). Hexadecimal (128 bits): 26 Hex characters (0~9, a~f). Show Password: Check this box to show the passwords that have been entered.
 802.1x Setting: When users use radius server to authenticate client certificate for WPA authentication mode. 802.1x tab:
Profile Network Advanced Statistics WMM WPS Radio On/Off About
PROF1 Cherry_test_11n_Bouter Profile Name >> PROF1 SSID >> Cherry_test_11n_Bouter SSID >> Cherry_test_11n_Bouter Network Type >> Information None Use 802.1(x>> NO Threshold >> 2347 Add Edit
Cyclour Coming Control Comparison Comparison
EAP Method >> PEAP Tunnel Authentication >> EAP-MSCHAP v2 Session Resumption ID PASSWORD Client Certification Server Certification Authentication ID / Password
OK Cancel
 PEAP Method: PEAP: Protect Extensible Authentication Protocol. PEAP transport securely authentication data by using tunnelling between PEAP clients and an authentication server. PEAP can authenticate wireless LAN clients using only server-side certificates, thus simplifying the
 TLS / Smart Card: Transport Layer Security. Provides for

certificate-based and mutual authentication of the client and the network. It relies on client-side and server-side certificates to perform authentication and can be used to dynamically generate user-based and session-based WEP keys to secure subsequent communications between the WLAN client and the access point.

Tunnel Authentication:

- **Protocol**: Tunnel protocol, List information including **EAP-MSCHAP v2** and **EAP-TLS/ Smart Card.**
- **Tunnel Identity**: Identity for tunnel.
- Tunnel Password: Password for tunnel.

Session Resumption: Reconnect the signal while broken up, to reduce the packet and improve the transmitting speed. Users can click the box to enable or disable this function.

ID\PASSWORD tab:

ID \ PASSWORD	Tunnel Authentication >> Client Certification Server Ce	EAP-MSCHAP v2	
Authentication ID / Pass	word		
Identity >>	Password >>	Domain Name >>	
Tunnel ID / Password -			
Tunnel ID >>	Tunnel Password >>	Show Password	

ID/ PASSWORD: Identity and password for server.

- Authentication ID / Password: Identity, password and domain name for server. Only "EAP-FAST" and "LEAP" authentication can key in domain name. Domain name can be keyed in blank space.
- Tunnel ID / Password: Identity and Password for server.

Show Password: Check this box to show the passwords that have been entered.

OK: Click to save settings and exit this page.

Cancel: Click to call off the settings and exit.

Client Certification tab:

EAP Method >> PEAP		uthentication >>	EAP-MSCHAP v2	▼ [Session Resumption
ID \ PASSWORD	Client Certificat	ion Server C	Certification		
O Use a certificate on t	this computer				<u>_</u>
	1				
	Issued To >>				
	Issued By >>				
	Expired On >>				
F	riendly Name >>				
Use my smart card					
		OK	Cancel		

Users can select **Use a certificate on this computer**, a client certificate for server authentication. Or users can select **Use my smart card** to enable the Client Certification function.

	OK : Click to save settings and exit this page.
	Cancel: Click to call off the settings and exit.
	Server Certification tab:
	System Config Auth. \ Encry. 8021X
	EAP Method >> PEAP
	Server name >>
	OK Cancel
	Use certificate chain: Choose use server that issuer of certificates.
	Server name: Enter an authentication sever name.
	OK : Click to save settings and exit this page.
	Cancel: Click call off the settings and exit.
Delete	Click to delete an existing profile.
Edit	Click to edit a profile.
Activate	Click to make a connection between devices.

Network

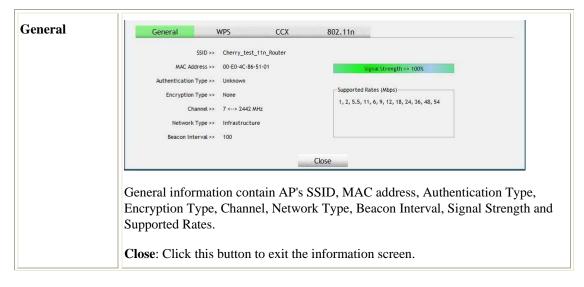
The Network page displays the information of surrounding APs from last scan result. The tab lists the information including SSID, Network type, Channel, Wireless mode, Security-Enabled and Signal.

		(je		Gos	0	8	4	
Profile	Network	Advanced	Statistics	WMM	WPS	Radio On/Off	About	
Sorted by >>	SSID	O Cha	nnel 🥝) Signal ist >>		Show dBm		
Cherry_test_11n_R	outer	1 /27	B9n Ø	100%				
Abocom-Wireless		11	bg	86%				
airlive-wl5470poe		11	g	50%				
skl		10	g	44%				
Abocom-Wireless		6	Bg	29%	-			
PINGOO		11	Bg	24%				
802.11g-AP		\$6	bg	15%				
Rescan	Add to Profi	le						

Network Tal	0
Sorted by	Indicate that AP list are sorted by SSID, Channel or Signal.
Show dBm	Check the box to show the dBm of the AP list.
SSID	Shows the name of BSS network.
Network Type	Network type in use, Infrastructure for BSS, Ad-Hoc for IBSS network.
Channel	Shows the currently used channel.
Wireless mode	AP support wireless mode. It may support 802.11b or 802.11g or 802.11n wireless mode.
Encryption	Shows the encryption type currently in use. Valid value includes WEP, TKIP, AES, and Not Use.
Signal	Shows the receiving signal strength of specified network.
Rescan	Click to refresh the AP list.
Add to Profile	Select an item on the list and then click to add it into the profile list.

Access Point (AP) Information

Double click on the intended AP to see AP's detail information that divides into four parts. They are General, WPS, CCX and 802.11n information. The introduction is as following:



WPS	General WPS CCX 802.11n
	Authentication Type >> Unknown State >> Configured
	Encryption Type >> None Version >> 1.0
	Config Methods >> 0x0086 AP Setup Locked >>
	Device Password ID >> UUID-E >> 6304125310192006122800E04C865101
	Selected Registrar >> Unknown RF Bands >> Unknown
	Close
	WPS information contains Authentication Type, Encryption Type, Config Methods, Device Password ID, Selected Registrar, State, Version, AP Setup Locked, UUID-E and RF Bands.
	Authentication Type : There are four types of authentication modes supported by RaConfig. They are Open, Shared, WPA-PSK, WPA securities, WPA2-PSK and WPA2.
	Encryption Type : For open and shared authentication mode, the selection of encryption type are None and WEP. For WPA, WPA2, WPA-PSK and WPA2-PSK authentication mode, the encryption type supports both TKIP and AES.
	Config Methods : Correspond to the methods the AP supports as an Enrollee for adding external Registrars.
	Device Password ID : Indicate the method or identifies the specific password that the selected Registrar intends to use.
	Selected Registrar: Indicate if the user has recently activated a Registrar to add an Enrollee. The values are "TRUE" and "FALSE".
	State : The current configuration state on AP. The values are "Unconfigured" and "Configured".
	Version: WPS specified version.
	AP Setup Locked: Indicate if AP has entered a setup locked state.
	UUID-E : The universally unique identifier (UUID) element generated by the Enrollee. There is a value. It is 16 bytes.
	RF Bands : Indicate all RF bands available on the AP. A dual-band AP must provide it. The values are "2.4GHz".
	Close: Click this button to exit the information screen.
CCX	General WPS CCX 802.11n CCKM >> FALSE Cmic >> FALSE Ckip >> FALSE
	Close
	CCX information contains CCKM, Cmic and Ckip information.
	Close: Click this button to exit the information screen.

Secondary Channel Offset element		*
Secondary Channel Offset	0	II.
Extended Capabilities information element		
HT Information Exchange Support	FALSE	
Neighbor Report element		
Mobility Domain	FALSE	
High Throughput	FALSE	
HT Capabilities element		
HT Capability	TRUE	
LDPC Coding Capability	FALSE	
Supported Channel Width Set	1	12
C10 D C	2	<u>1</u>
	Close	
	diose	

Link Status

Click the triangle button at the right down corner of the windows to expand the link status. The link status page displays the detail information of current connection.

- Click this button to show the information of Status Section.
- Click this button to hide the information of Status Section.

Profile	LLL Network	Advanced	Statistics	with the second	() WPS	Radio On/Off	About
Sorted by >>	SSID	Ocha	annel 🥝) Signal ist >>		Show dBm	
Cherry_test_11n_Rou	ter	67	B910	100%			
Abocom-Wireless		11	Bg	86%			
airlive-wl5470poe		11	g	50%			
ski		10	q	44%			
Abocom-Wireless		100	Bg	29%			
PINGOO		1011	ßq	24%			
802.11g-AP		6	B g	15%			
Rescan	Add to Profile						(
			00.50.40.94.51.0		Link (Duality >> 100%	
Status >>	 Cherry_test_ 	11n_Router <> (00-E0-4C-86-51-0			Quality >> 100% :rength 1 >> 100%	
Status >: Extra Info >:	 Cherry_test_ Link is Up [TxF 	11n_Router <> (Signal St		_
Status >: Extra Info >:	 Cherry_test_ Link is Up [TxF 7 <> 2442 MF 	11n_Router <> (Signal St	rength 1 >> 100%	
Status >> Extra Info >> Channel >>	 Cherry_test_ Link is Up [TxF 7 <> 2442 MH Open 	11n_Router <> (Signal St	rength 1 >> 100%	_
Status >> Extra Info >> Channel >> Authentication >>	Cherry_test_ Link is Up [Txf 7 <> 2442 MH Open NONE	11n_Router <> (Power:100%] Hz; central chann		Transmit	Signal St	rength 1 >> 100% Strength >> 26%	
Status >> Extra Info >> Channel >> Authentication >> Encryption >> Network Type >> IP Address >>	 Cherry_test_ Link is Up [Txl 7 <> 2442 Mł Open NONE Infrastructure 192.168.1.100 	11n_Router <> (Power:100%] Hz; central chann e D		Transmit —	Signal St	rength 1 >> 100%	
Status >> Extra Info >> Channel >> Authentication >> Encryption >> Network Type >> IP Address >> Sub Mask >>	 Cherry_test_: Link is Up [Txf 7 <> 2442 Mi Open NONE Infrastructure 192.168.1.100 255.255.255.0 	11n_Router <> (Power:100%] Hz; central chann e 0 0		Transmit —	Signal St Noise ! > 135.0 Mbps	rength 1 >> 100% Strength >> 26%	
Status >> Extra Info >> Channel >> Authentication >> Encryption >> Network Type >> IP Address >>	 Cherry_test_: Link is Up [Txf 7 <> 2442 Mi Open NONE Infrastructure 192.168.1.100 255.255.255.0 	11n_Router <> (Power:100%] Hz; central chann e 0 0		Transmit Link Speed > Throughput >	Signal St Noise ! > 135.0 Mbps	rength 1 >> 100% Strength >> 26% Max	
Status >> Extra Info >> Channel >> Authentication >> Encryption >> Network Type >> IP Address >> Sub Mask >>	 Cherry_test_: Link is Up [Txf 7 <> 2442 Mi Open NONE Infrastructure 192.168.1.100 255.255.255.0 	11n_Router <> (Power:100%] Hz; central chann e 0 0		Transmit Link Speed >: Throughput > Receive	Signal St Noise : > 135.0 Mbps > 0.000 Kbps	rrength 1 >> 100% Strength >> 26% Max 11.728	
Status >> Extra Info >> Channel >> Authentication >> Encryption >> Network Type >> IP Address >> Sub Mask >>	 Cherry_test_1 Link is Up [Txl 7 <> 2442 Mi Open NONE Infrastructuri 192.168.1.100 255.255.255.0 192.168.1.195 	11n_Router <> (Power:100%] Hz; central chann e 0 0		Transmit Link Speed >: Throughput > Receive	Signal St Noise ! > 135.0 Mbps	rength 1 >> 100% Strength >> 26% Max 11.728 Kbps	

Link Status Ta	ab
Status	Shows the current connected AP SSID and MAC address. If there is no connection existing, it will show Disconnected.
Extra Info	Shows the link status and Tx power percentage.
Channel	Shows the current channel in use.
Authentication	Authentication mode used within the network, including Unknown, Open, Shared, WPA-PSK, WPA2-PSK, WPA and WPA2.
Encryption	Shows the encryption type currently in use. Valid value includes WEP, TKIP, AES, and Not Use.
Network Type	Network type in use, Infrastructure for BSS, Ad-Hoc for IBSS network.
IP Address	Shows the IP address information.
Sub Mask	Shows the Subnet Mask information.
Default Gateway	Shows the default gateway information.
Link Quality	Shows the connection quality based on signal strength and TX/RX packet error rate.
Signal Strength 1	Shows the Receiving signal strength, users can choose to display as percentage or dBm format.
Noise Strength	Shows the noise signal strength in the wireless environment.
Transmit	Shows the current Link Speed and Throughput of the transmit rate.
Receive	Shows the current Link Speed and Throughput of receive rate.
Link Speed	Shows the current transmitting rate and receiving rate.
Throughput	Shows the transmitting and receiving speed of data.

Advanced

This Advanced page provides advanced and detailed settings for the wireless network.

MI Intelliger	nt Wireless Uti	ltiy							X
F	Profile	Network	Advanced	Statistics	WMM	() WPS	Radio On/Off	About	
Wireless	mode >>	2.4G	•						
En En	able TX Burst able TCP Windo st Roaming at	ow Size							
		r Country Regior 1: CH1-13	n Code	·					
-	Apply								-

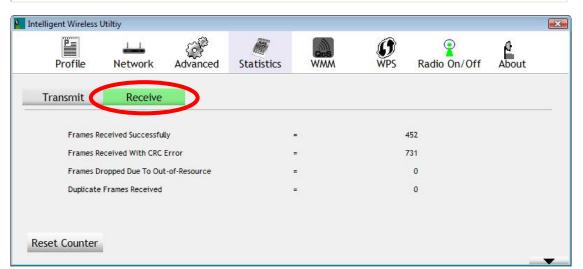
Advanced Tab				
Wireless mode	Here supports 2.4G (included 802.11b/g/n) wireless mode.			
Enable TX Burst	Check to enable this function. This function enables the Wireless LAN USB Adapter to deliver better throughput during a period of time, it only takes effect when connecting with the AP that supports this function.			
Enable TCP Window Size	Check to increase the transmission quality. The large TCP window size the better performance.			
Fast Roaming at	Check to set the roaming interval, fast to roaming, setup by transmits power.			
Apply	Click to apply above settings.			

Statistics

The Statistics screen displays the statistics on the current network settings.

Intelligent Wireless Utiltiy						X
Profile Network Advanced	Statistics	Cos WMM	() WPS	Radio On/Off	About	
Transmit Receive						
Frames Transmitted Successfully		=	1	294		
Frames Retransmitted Successfully		=	1	294		
Frames Fail To Receive ACK After All Retries		=		15		
RTS Frames Successfully Receive CTS		-		0		
RTS Frames Fail To Receive CTS		-		0		
Reset Counter						•

Transmit Statistics Tab					
Frames Transmitted Successfully	Shows information of packets successfully sent.				
Frames Retransmitted Successfully	Shows information of packets successfully sent with one or more reties.				
Frames Fail To Receive ACK After All Retries	Shows information of packets failed transmit after hitting retry limit.				
RTS Frames Successfully Receive CTS	Shows information of packets successfully receive CTS after sending RTS frame.				
RTS Frames Fail To Receive CTS	Shows information of packets failed to receive CTS after sending RTS.				
Reset Counter	Click this button to reset counters to zero.				



Receive Statistics Tab				
Frames Received Successfully	Shows information of packets received successfully.			
Frames Received With CRC Error	Shows information of packets received with CRC error.			
Frames Dropped Due To Out-of-Resource	Shows information of packets dropped due to resource issue.			
Duplicate Frames Received	Shows information of packets received more than twice.			
Reset Counter	Click this button to reset counters to zero.			

WMM/ QoS

The WMM page shows the Wi-Fi Multi-Media power save function and Direct Link Setup that ensure the wireless network linking quality.

		<u> </u>		GoS	Ø	8	4
Profile	Network	Advanced	Statistics	WMM	WPS	Radio On/Off	About
MM Setup Status	l.						
WMM >>	Enabled	Power Save :	> Disabled		D	irect Link >> Disabled	
W	WM Enable						
	WMM - Power Sav	e Enable					
	AC_BK	AC_BE	AC_VI	AC_VC	ş		
			LL MC_01		e.		
	Direct Link Setup	Enable					
	MAC Address >>			Timeout Value >>	60 se	iC.	
						.Api	вy
						Tear	Down
						Contraction in the second	and the second

WMM/QoS Ta	b
WMM Enable	Check the box to enable Wi-Fi Multi-Media function that is meant to improve audio, video and voice applications transmitted over Wi-Fi.
WMM- Power Save Enable	 Select a power save mode that preferred. AC_BK (Access Category Background) AC_BE (Access Category Best Effort) AC_VI (Access Category Video) AC_VO (Access Category Voice)
Direct Link Setup Enable	Check the box to enable Direct Link Setup (DLS). This function will be enabled under the connection with AP which must support the DLS function. Direct Link Setup allows direct STA-to-STA frame transfer within a BSS (Basic Service Set). This is designed for consumer use, where STA-to-STA transfer is more commonly used.
MAC Address	 The setting of DLS(Direct Link Setup) indicates as follow : Fill in the blanks of Direct Link with MAC Address of target STA, and the STA must conform to two conditions: Connecting with the same AP that supports DLS feature. DLS enabled.
Timeout Value	Timeout Value represents that it disconnect automatically after few seconds. The value is integer that must be between 0~65535. It represents that it always connects if the value is zero. (Default value of Timeout Value is 60 seconds.)
Apply	Click this button to apply the settings.
Tear Down	Select a direct link STA, then click "Tear Down" button to disconnect the STA.

WPS

Îr

The primary goal of Wi-Fi Protected Setup (Wi-Fi Simple Configuration) is to simplify the security setup and management of Wi-Fi networks. The STA as an Enrollee or external Registrar supports the configuration setup using PIN (Personal Identification Number) configuration method or PBC (Push Button Configuration) method through an internal or external Registrar.

Intelligent Wirele	ess Utiltiy						.[
Profile	Network	Advanced	Statistics	Gos	Ø WPS	Radio On/	Off About
		w	PS AP List			- 12	
ID:	Cherr	y_test_11n_ Rout	er	00-0C-43-28-60-E0	6	2	Rescan Information
							Pin Code
							30650121 Renew
		WPS	Profile List				Config Mode
Cherry_test_1	1n_ Router				7		Enrollee 💌
							Detail
100						•	Connect
PIN	WPS Associate	IE		Progress >> 100%			Rotate
PBC	WP5 Probe IE	PBC -	Get WPS profile s	uccessfully.			Disconnect
				ALCONG COURTONN			Export Profile
							Delete

 Display the information of surrounding APs with WPS IE from last result. List information included SSID, BSSID, Channel, ID (Devic Password ID), Security-Enabled. Issue a rescan command to wireless NIC to update information on surrounding wireless network. Display the information about WPS IE on the selected network. List
surrounding wireless network.
Display the information about WPS IF on the selected network. Lis
information included Authentication Type, Encryption Type, Config Methods, Device Password ID, Selected Registrar, State, Version, A Locked, UUID-E and RF Bands.
Close

Config Mode	Select from the pull-down menu to decide the station role-playing as an Enrollee or an external Registrar.							
Detail	Click the Detail button to show the information about Security and Key in the credential.							
	Intelligent Wireless Utility Image: Statistics Profile Network Advanced Statistics WPS Radio On/Off About							
	ID: Cherry_test_11n_Router 00-E0-4C-86-51-01 7 Information Unformation Fine Code S7055251 Renew WPS Profile List Config Mode							
	Cherry_test_11n_Bouter Cherry_test_11n_Bouter Implied PBC PBC PBC PBC Connect PBC PBC Connect PBC Connect PBC Connect PBC Connect Connect							
	SSID >> Cherry_test_11n_Router							
	BSSID >> 00-E0-4C-86-51-01 Authentication Type >> OPEN Encryption Type >> NONE Key Length >> Key Index >>							
	Key Material >> Show Password OK Cancel							
	If selected the AP that listed in the WPS Profile List field, click the Detail							
	button to see more AP information. SSID : Shows the connected AP network name.							
	BSSID : The MAC address of the connected AP. Fixed and cannot be changed.							
	Authentication Type: The authentication type support Open, WPA-PSK and WPA2-PSK.							
	Encryption Type: For Open authentication mode, the selection of encryption type are NONE and WEP . For WPA-PSK and WPA2-PSK authentication mode, the encryption type supports both TKIP and AES .							
	Key Length: Only valid when using Open authentication mode and WEP encryption. There are key lengths 5, 10, 13 and 26.							
	Key Index: Only valid when using Open authentication mode and WEP encryption. There are 1~4 key index.							
	Key Material: The key material can be used to ensure the security of the wireless network. Fill in the appropriate value or phrase in Key Material field.							
	Show Password: Check this box to show the passwords that have bee entered.							
	OK : Click to save and apply the new settings.							
	Cancel: Click to leave and discard the settings.							
Connect	Command to connect to the selected network inside credentials. The active selected credential is as like as the active selected Profile.							

Rotate	Command to rotate to connect to the next network inside credentials.
Disconnect	Stop WPS action and disconnect this active link. And then select the last profile at the Profile Page. If there is an empty profile page, the driver will select any non-security AP.
Export Profile	Export all credentials to Profile.
Delete	Delete an existing credential. And then select the next credential if exist. If there is an empty credential, the driver will select any non-security AP.
PIN	Registrar : Add the AP's PIN code into the PIN code column, and press the device PIN button. It will connect with the AP in two minutes and get IP address.
	Enrollee : Input the device's PIN code into the PIN code column of AP. Start AP WPS process and click device PIN button. Then, the device will connect to AP in two minutes and get IP address.
РВС	Start to add to AP using PBC (Push Button Configuration) method. Click this button to connect the AP which supported WPS function within two minutes Meanwhile, the AP should also click the PBC button simultaneously.
Note:	
connection. If use click "Disconnect	ick PIN or PBC, please do not rescan within two minutes of the ers want to stop this setup within the interval, restart PIN/PBC or " to stop WPS action.
connection. If use	ers want to stop this setup within the interval, restart PIN/PBC or
connection. If use click "Disconnect	ers want to stop this setup within the interval, restart PIN/PBC or " to stop WPS action. Send the association request with WPS IE during WPS setup. It is optional
connection. If use click "Disconnect WPS Associate IE	ers want to stop this setup within the interval, restart PIN/PBC or "to stop WPS action. Send the association request with WPS IE during WPS setup. It is optional for STA. Send the probe request with WPS IE during WPS setup. It is optional for

Radio On/Off

Click this button to turn on or off radio function.

M Intellig	gent								X
	Profile	Network	Advanced	Statistics	Qos WMM	() WPS	Radio On/Off	About	
9	This i	con shows r	adio on, clic	ek to turn it o	ff.				
i	This i	con shows r	adio off, clio	ck to turn it o	m.				

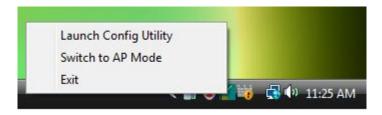
About

This page displays the information of the Wireless LAN USB Adapter including, RaConfig Version/ Date, Driver Version/ Date, EEPROM Version and Phy_Address.

MI Intelli	gent Wireless	Utiltiy							X
	Profile	لمنظ Network	Advanced	Statistics	WMM	Ø WPS	Radio On/Off	About	
		Config Ve	ersion >> 2.	1.5.0		Date >>	06-23-2008		
		Driver Ve	ersion >> 2.	2.1.0		Date >>	07-31-2008		
		EEPROM Ve	ersion >> 1.	0	Firmware	e Version >>	0.12		
		Phy_Ad	dress >> 0	0- <mark>12-0E-6B-58-3</mark> B					
								_	-

UTILITY MENU LIST

To access Windows Vista utility menu list, please right click the utility icon on the task bar.



- Launch Config Utility: Select to open the utility screen.
- Switch to AP Mode: Select to make the Wireless LAN USB Adapter act as a wireless AP.
- **Exit**: Select to close the utility program.

SOFT AP MODE

Config

SSID Soft			nannel 1 <- Use Mac Adv	Trace Sec	urity Setting
-Country Region Code- 11 B/G 0: CH1-				ding among wire	
Beacon (ms) TX Power dle time(60 - 3600)(s)	100 %	100 • 300			
			Default	Cancel	Apply

Config	
SSID	AP name of user type. Users also can click Use Mac Address button to display it.
Channel	Manually force the AP using the channel. (The system default is CH 1.)
Wireless Mode	Here supports 2.4G (included 802.11b/g/n) wireless mode.
Use Mac Address	Click this button to replace SSID by MAC address.
Security Setting	Authentication mode and encryption algorithm used within the AP. (The system default is no authentication and encryption.)

	Security Setting
	Authentication Type Open Encryption Type Not Use
	WPA Pre-shared-Key
	Group Rekey Interval 60 10 seconds
	С Кеу#2 Нех <u>-</u> С Кеу#3 Нех <u>-</u>
	C Key#4 Hex -
	* WEP 64 Bits Encryption: Please Keyin 10 HEX characters or 5 ASCII characters *
	WEP 128 Bits Encryption: Please Keyin 26 HEX characters or 13 ASCII characters
	C Show Password
	OK Cancel
	Anthentioption Type: There are according to the structure of
	Authentication Type: There are several types of authentication modes including Open, Shared, WPA-PSK, WPA2-PSK, and WPA-PSK/
	WPA2-PSK. (System authentication type default is Open.)
	Encryption Type: For Open and Shared authentication mode, the
	selections of encryption type are Not Use and WEP . For WPA-PSK , WPA2 PSK and WPA PSK (WPA2 PSK authentiaction mode the
	WPA2-PSK, and WPA-PSK/ WPA2-PSK authentication mode, the encryption type supports both TKIP and AES. (System authentication
	type default is Not Use.)
	WPA Pre-shared Key: This is the shared secret between AP and STA.
	For WPA-PSK and WPA2-PSK and WPA-PSK/WPA2-PSK authentication mode, this field must be filled with character longer than 8
	and less than 64 lengths.
	Group Re-key Interval: Only valid when using WPA-PSK, WPA2-PSK,
	and WPA-PSK/ WPA2-PSK authentication mode to renew key. Users can set to change by seconds or packets. (Default is 600 seconds.)
	WEP Key : Only valid when using WEP encryption algorithm. The key must match with the AP's key. There are four formats to enter the keys.
	• ASCII (64 bits): 5 ASCII characters (case sensitivity).
	 ASCII (128 bits): 13 ASCII characters (case sensitivity). Hexadecimal (64 bits): 10 Hex characters (0~9, a~f).
	 Hexadecimal (04 bits): 10 Hex characters (0~9, a~f). Hexadecimal (128 bits): 26 Hex characters (0~9, a~f).
	Show Password: Check this box to show the passwords that have been entered.
Beacon (ms)	The time between two beacons. (The system default is 100 ms.)
TX Power	Manually force the AP transmits power from the pull down list 100%, 75%, 50%, 25% and Lowest. (The system default is 100%.)
Idle time(60-3600)(s)	It represents that the AP will idle after few seconds. The time must be set between 60~3600 seconds. (Default value of idle time is 300 seconds.)

No forwarding among wireless clients	No beacon among wireless client, clients can share information each other. (The system default is no forwarding.)
Hide SSID	Do not display AP name. (System default no hide.)
Allow BW 40MHz	 Click to disable this function. (System default is enabled.) This function enables the adapter to deliver better throughput, enable this function the link speed will up to 300Mbps, disable this function the link speed will up to 150Mbps only. Note: This function depends on the capability of device. Here supports link speed up to 150Mbps only, DO NOT support link speed up to 300Mbps.
Default	Use the system default value.
Apply	Click to apply the above settings.

Access Control

Intelligent Wireless U		E E	
Config Access Control	Mac Table Event L	og Statistics About	
Access Policy		Disable	•
MAC Address		- Access List	
	Add	1	
	Delete		
	Remove All	1	
		<u>.</u>	Analy
			Apply

Access Cont	rol
Access Policy	User chooses whether AP start the function or not. (System default is Disable.)
	• Disable: Do not use this access control function.
	• Allow All: Only the MAC address listed in the Access List can connect with this soft AP.
	• Reject All: Only the MAC address listed in the Access List can NOT connect with this soft AP.
MAC Address	Manually force the Mac address using the function. Enter the MAC address in the column and click Add button, then the MAC address will be listed in the Access List pool.
Access List	Display all MAC Address that users have set.
Add	Add the MAC address that users would like to set.
Delete	Delete the MAC address that users have set.
Remove All	Remove all MAC address in the Access List.
Apply	Apply the above changes.

MAC Table

					1.0000	
MAC A	Address		AID	Power S	Status	
-						
		111				•

MAC Table	
MAC Address	The station MAC address of current connection.
AID	Raise value by current connection.
Power Saving Mode	The station of current connect whether it have to support.
Status	The status of current connection.

Event Log

Event Time (yy/mm/dd-hh:mm:ss)	Message	
2008 / 06 / 06 - 11 : 26 : 49 2008 / 06 / 06 - 11 : 26 : 50 2008 / 06 / 06 - 11 : 26 : 50	Restart Access Point Restart Access Point Restart Access Point	
		Clear

Event Log	
Event Time (yy/mm/dd-hh:mm:ss)	Records the event time.
Message	Records all the event messages.

Statistics

Transmit Statistics		
Frames Transmitted Successfully	=	331
Frames Fail To Receive ACK After All Retries	=	0
RTS Frames Successfully Receive CTS	=	0
RTS Frames Fail To Receive CTS	=	0
Frames Transmitted Successfully After Retry	=	0
Receive Statistics		
Frames Received Successfully	=	206
Frames Received With CRC Error	=	123
Frames Dropped Due To Out-of-Resource	=	0
Duplicate Frames Received	=	0
	[RESET COUNTERS

Transmit Statistics	
Frames Transmitted Successfully	Shows information of packets successfully sent.
Frames Fail To Receive ACK After All Retries	Shows information of packets failed transmit after hitting retry limit.
RTS Frames Successfully Receive CTS	Shows information of packets successfully receive CTS after sending RTS.
RTS Frames Fail To Receive CTS	Shows information of packets failed to receive CTS after sending RTS.
Frames Transmitted Successfully After Retry	Shows information of packets successfully sent with one or more reties.
Receive Statistics	
Frames Received Successfully	Shows information of packets received successfully.
Frames Received With CRC Error	Shows information of packets received with CRC error.
Frames Dropped Due To Out-of-Resource	Shows information of packets dropped due to resource issue.

Duplicate Frames Received	The number of duplicate packets received.
Reset Counter	Reset counters to zero.

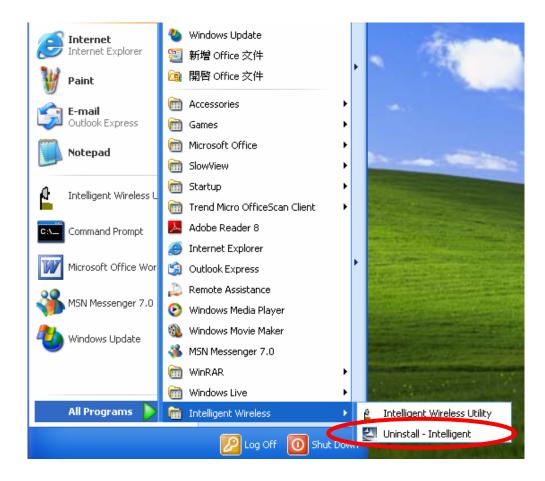
About

This page displays the Wireless LAN USB Adapter and driver version information.

Utility Version :	2.0.5.0	Date :	06-23-2008
Driver Version :	2.2.1.0	Date :	07-31-2008
EEPROM Version :	1.0	Firmware Version :	0.12
IP Address :	192.168.123.1	Phy_Address :	00-12-0E-6B-58-3B
Sub Mask :	255.255.255.0	Default Gateway :	0.0.0

CHAPTER 4: UNINSTALLATION FOR WINDOWS 2000/XP

To uninstall the utility and driver, please refer to below steps. (When uninstalling the utility, the driver will be uninstalled as well.)

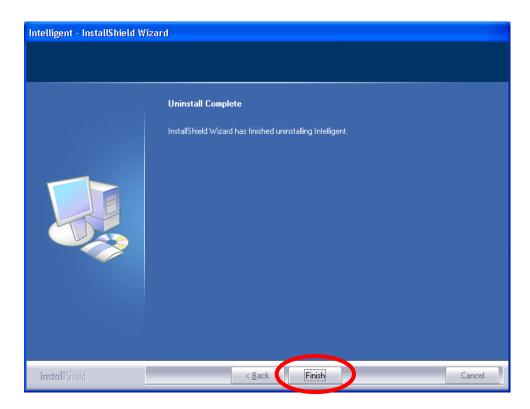


1. Go to Start →All Programs →Intelligent Wireless → Uninstall –Intelligent.

2. Click **Yes** to complete remove the selected application and all of its features.



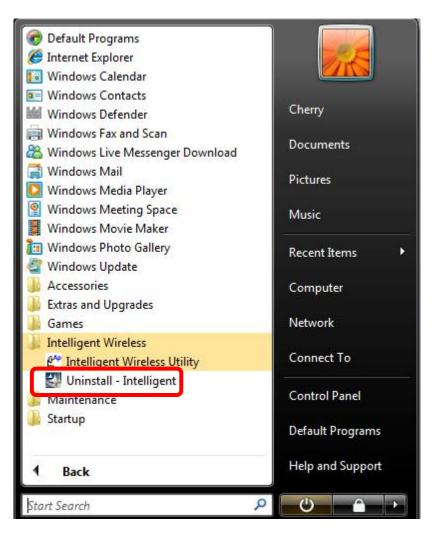
3. Then click **Finish** to complete the uninstallation.



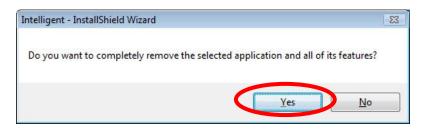
FOR WINDOWS VISTA

To uninstall the utility and driver, please refer to below steps. (When uninstalling the utility, the driver will be uninstalled as well.)

1. Go to Start \rightarrow Programs \rightarrow Intelligent Wireless \rightarrow Uninstall –Intelligent.



2. Click **Yes** to complete remove the selected application and all of its features.



Caution:

Under Vista 64-bit operation system, when process uninstallation the following screen will show up and request to insert Wireless LAN USB Adapter to complete the uninstallation.



3. Finally, click **Finish** to complete the uninstallation.

Intelligent - InstallShield Wizard	
, and the second se	Uninstall Complete
	InstallShield Wizard has finished uninstalling Intelligent.
InstallShield	< Back Finish Cancel